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Anonymity and accountability in self-organizing electronic communities Csilla Farkas, Gábor Ziegler, Attila Meretei, András Lörincz



Full text available: pcif(355,99 KB) Additional Information: full citation, abstract, references, index terms

In this paper we study the problem of anonymity versus accountability in electronic communities. We argue that full anonymity may present a security risk that is unacceptable in certain applications; therefore, anonymity and accountability are both needed. To resolve the inherent contradiction between anonymity and accountability in a flexible manner, we introduce the concepts of internal and external accountabilities. Intuitively, internal accountability applies to virtual users only, and is go ...

Keywords: accountability, anonymity, authentication, privacy, self-organizing community

2 Requirements of role-based access control for collaborative systems Trent Jaeger, Atul Prakash



December 1996 Proceedings of the first ACM Workshop on Role-based access control

Full text available: pdf(324.83 KB) Additional Information: full citation, references, citings, index terms

3 The architecture and performance of security protocols in the ensemble group communication system: Using diamonds to guard the castle



August 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue 3

Full text available: pdf(418.73 KB)

Additional Information: full citation, abstract, references, index terms, review

Ensemble is a Group Communication System built at Cornell and the Hebrew universities. It allows processes to create process groups within which scalable reliable fifo-ordered multicast and point-to-point communication are supported. The system also supports other communication properties, such as causal and total multicast ordering, flow control, and the like. This article describes the security protocols and infrastructure of Ensemble. Applications using Ensemble with the extensions des ...

Keywords: Group communication, security

4 The architecture and implementation of a distributed hypermedia storage system. Douglas E. Shackelford, John B. Smith, F. Donelson Smith December 1993 Proceedings of the fifth ACM conference on Hypertext

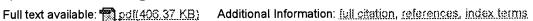


Full text available: pdf(1.01 MB)

Additional Information: full citation, references, citings, index terms

Keywords: computer-supported cooperative work (CSCW), distributed data, distributed file systems, hypertext, performance, scalability

5 A component model for stardardized web-based education L. Anido-Rifón, M. Llamas-Nistal, M. J. Fernández-Iglesias April 2001 Proceedings of the tenth international conference on World Wide Web



Keywords: Learing technology standardization, Web-based course delivery systems, authoring tools, collaborative systems, educational web applications, learning technology, practice and experience

6 A component model for standardized web-based education August 2001 Journal on Educational Resources in Computing (JERIC)



Full text available: pdf(384.31 KB)

Additional Information: full citation, abstract, references, index terms, review

We present a layered component model to support Web-based collaborative applications. We show how this model lets programmers focus on the particular logic of their applications, avoiding most of the issues related to collaboration, access control, and network management. The proposed model is organized into three layers on top of a foundation composed of commercial-off-the-shelf services and standard Internet protocols. The service level provides a network-transparent communications layer, data ...

Keywords: authoring tools, collaborative systems, educational web applications, learning technology standardization, web-based course delivery systems

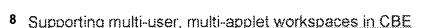
7 A high-level and flexible framework for implementing multiuser user interfaces Prasun Dewan, Rajiv Choudhary October 1992 ACM Transactions on Information Systems (TOIS), Volume 10 Issue 4

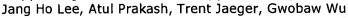


Additional Information: full citation, abstract, references, citings, index terms

We have developed a high-level and flexible framework for supporting the construction of multiuser interfaces. The framework is based on a generalized editing interaction model, which allows users to view programs as active data that can be concurrently edited by multiple users. It consists of several novel components including a refinement of both the Seeheim UIMS architecture and the distributed graphics architecture that explicitly addresses multiuser interaction; the abstractions of sha ...

Keywords: computer-supported cooperative work, editing, groupware, user interface management systems





November 1996 Proceedings of the 1996 ACM conference on Computer supported cooperative work

Full text available: pdf(1.47 MB)

Additional Information: full citation, references, citings, index terms

Keywords: CSCW toolkits, DistView, Web-based collaboration, access control, group communication, groupware, shared electronic workspaces

9 Systems, interactions, and macrotheory

Philip Barnard, Jon May, David Duke, David Duce

June 2000 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 7 Issue 2

Full text available: pdf(1.60 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A significant proportion of early HCI research was guided by one very clear vision: that the existing theory base in psychology and cognitive science could be developed to yield engineering tools for use in the interdisciplinary context of HCI design. While interface technologies and heuristic methods for behavioral evaluation have rapidly advanced in both capability and breadth of application, progress toward deeper theory has been modest, and some now believe it to be unnecessary. A case ...

Keywords: cognitive models, computing system models, models of interaction

10 Special feature: Report on a working session on security in wireless ad hoc networks

Levente Buttyán, Jean-Pierre Hubaux

January 2003 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 7 Issue 1

Full text available: 📆 pdf(2.50 MB)

Additional Information: full obtation, references

11 Collaborative multimedia scientific design in SHASTRA

Vinod Anupam, Chandrajit L. Bajaj

September 1993 Proceedings of the first ACM international conference on Multimedia

Full text available: pdf(294.05 KB) ps(96,77 KB)

Additional Information: full citation, references, citings, index terms

12 Tree-based group key agreement

Yongdae Kim, Adrian Perrig, Gene Tsudik

February 2004 ACM Transactions on Information and System Security (TISSEC), Volume 7

Full text available: pdf(573.70 KB) Additional Information: full cliation, abstract, references, index terms

Secure and reliable group communication is an active area of research. Its popularity is fueled by the growing importance of group-oriented and collaborative applications. The central research challenge is secure and efficient group key management. While centralized methods are often appropriate for key distribution in large multicast-style groups, many collaborative group settings require distributed key agreement techniques. This work investigates a novel group key agreement approach which ble ...





Keywords: communication complexity, cryptographic protocols, group communication, group key agreement, security

13 Supporting the shared care of diabetic patients

Tim Kindberg, Nick Bryan-Kinns, Ranjit Makwana

November 1999 Proceedings of the international ACM SIGGROUP conference on Supporting group work

Full text available: pdf(2.00 MB)

Additional Information: full citation, abstract, references, citings, index

This paper reports on a study of clinicians who care for diabetic patients, and on the design of an application to support their work. The clinicians' long-term activity is rooted in a series of private sessions with the patient. Clinicians exchange information but the timeliness, specificity and other salient features of the communication are often unsatisfactory. Problems consequently arise such as the omission or duplication of tests. We describe a conceptual framework to account for the ...

Keywords: cooperative systems, knowledge sharing, medical informatics

14 Interoperable Web services for computational portals

Marlon Pierce, Geoffrey Fox, Choonhan Youn, Steve Mock, Kurt Mueller, Ozgur Balsoy November 2002 Proceedings of the 2002 ACM/IEEE conference on Supercomputing

Full text available: pdf(278.00 KB) Additional Information: full citation, abstract, references, index terms

Computational web portals are designed to simplify access to diverse sets of high performance computing resources, typically through an interface to computational Grid tools. An important shortcoming of these portals is their lack of interoperable and reusable services. This paper presents an overview of research efforts undertaken by our group to build interoperating portal services around a Web Services model. We present a comprehensive view of an interoperable portal architecture, beginning w ...

15 The digital agora: using technology for learning in the social sciences Carolyn Watters, Marshall Conley, Cynthia Alexander

January 1998 Communications of the ACM, Volume 41 Issue 1

Full text available: pdf(423.35 KB) Additional Information: full citation, references, citings, index terms, review

16 Corona: a communication service for scalable, reliable group collaboration systems Robert W. Hall, Amit Mathur, Farnam Jahanian, Atul Prakash, Craig Rassmussen November 1996 Proceedings of the 1996 ACM conference on Computer supported cooperative work

Full text available: mixif(1.18 MB) Additional Information: full citation, references, citings, index terms

Keywords: CSCW, Java, awareness, communication services, groupware, multicast, peer group, publish-subscribe

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